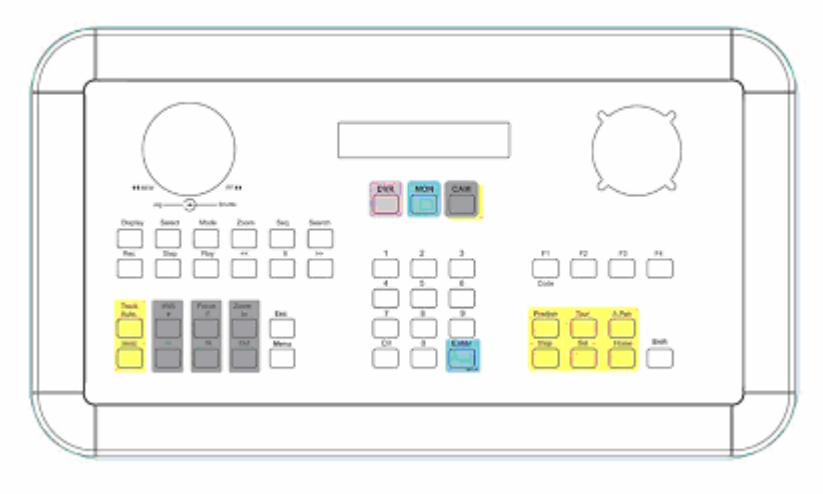
Multi-Function Keyboard Controller

EKB500

User’s Manual v1.13



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1. INTRODUCTION

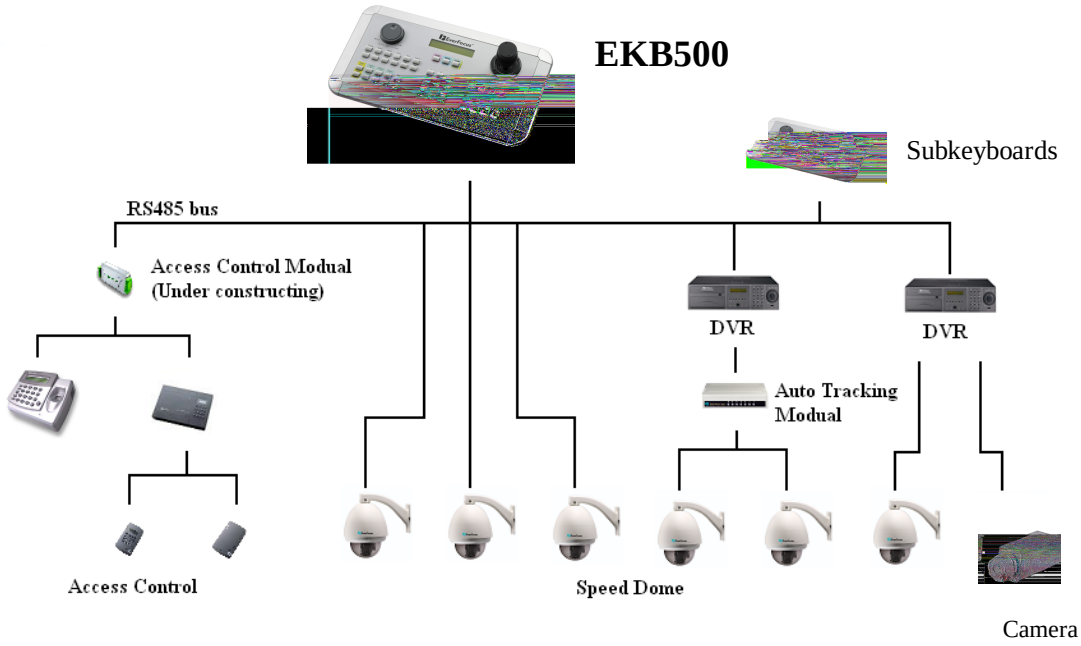
The multi-function keyboard controller, EKB500 is designed to control speed dome, integrated DVR, camera, access control and monitor. The EKB500 provides a programmable user's preferences for extending the flexibility of customers' requests and furthermore the local alarm signal can be carried out to a remote operation center through RS-485 port in security network system. The access control module will be built to connect the keyboard in the near future.

There are 3 hot keys for major functions of the speed dome camera, Digital Video Recorder, and monitor, allowing you to switch functions without complicated operation. The EKB500 is capable of controlling a speed dome's panning and tilting movement with variable speed from 0.1°/sec to 360°/sec as well as its zoom, focus and iris commands can be performed by one-touch button. Pan/tilt speed is adjustable automatically to the current camera zoom ratio. In the meantime, keyboard configuration can be set to control up to 8 keyboards with cascading topology in different places.

The design philosophy of our design team believes even the most powerful system is pointless if it isn't easy to install, configure, and simple to operate. Its easy installation and simple configuration give you that feasibility of total security solution.

2. INSTALLATION

2.1. EKB500 KEYBOARD CONNECTION DIAGRAM



2.2. PACKING LIST

Please check accessories in the packing before the installation.

1) EKB500 Multi-function controller keyboard X1

2) User's manual in CD-ROM format/Hard Copy X1

3) Wiring Box for RS-485 connection X1

4) External Power adapter X1

5) RS-485 terminator X1

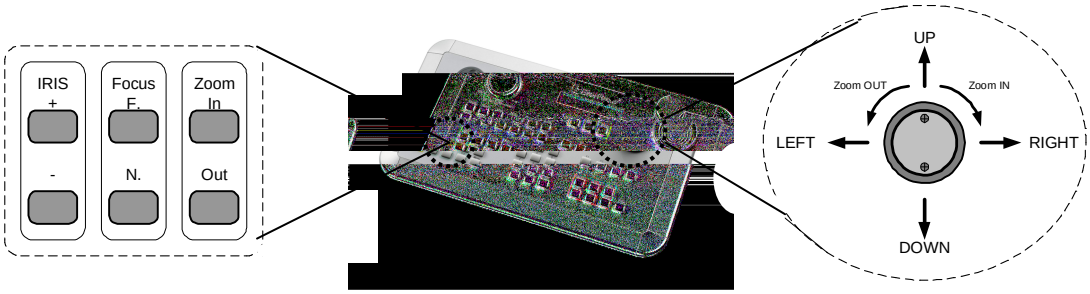
2.3. Quick Installation and Operation Guide (Work with EPTZ1000)

EKB500 and EPTZ1000 (Speed dome) and can work together by using factory default setting. You just need to connect cables by following steps:

1. Connect the RS485 cable to EKB500 and EPTZ1000.
2. Connect a video cable from EPTZ1000 to a monitor.
3. Connect the power to EKB500 and EPTZ1000.

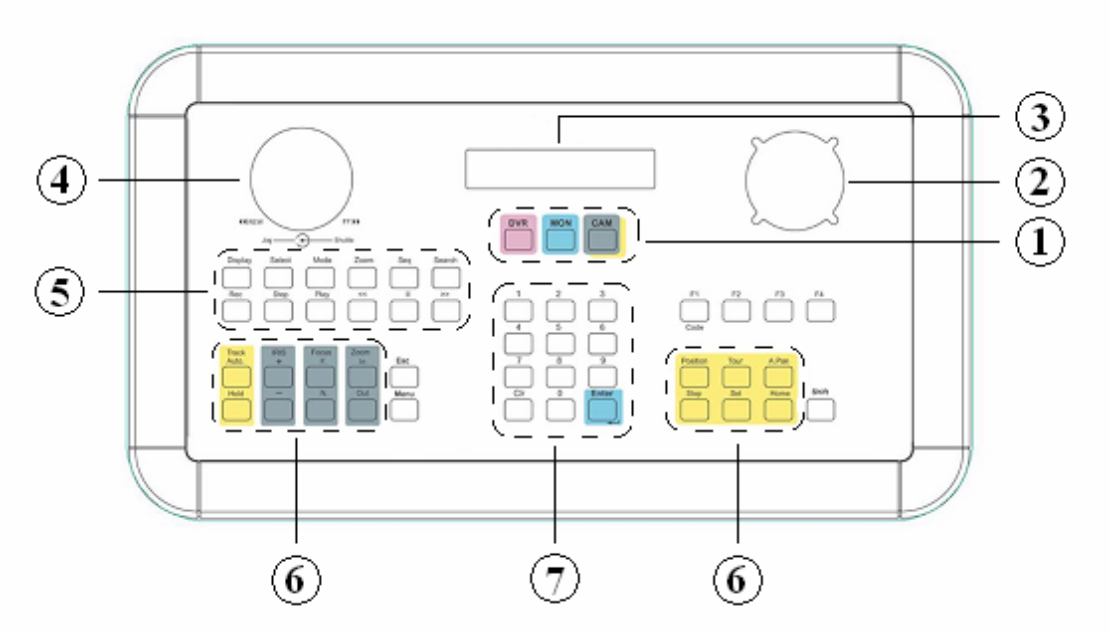
After the EPTZ1000 finishes the self-test mode, you can start to operate the EPTZ1000 via the EKB500.

To operate the EPTZ1000:



1. Shift the Joystick up/down or right/left to view from camera.
2. Turn the top of the Joystick to zoom in/out.
3. Press Zoom In/Out, Focus N. /F. and IRIS +/- function keys to operate the EPTZ1000.

3. FEATURE



1. Main function keys

Main function keys allow you to switch the control of DVRs, monitors and cameras easily.

2. Three-way Joystick

The 3-way Joystick is for controlling speed dome mainly. Shift it right/left and up/down to view right/left and up/down subjects, and turn it clockwise/counter-clockwise to zoom in/out.

3. LCD panel

The LCD panel shows operation information, and it has a capability to display maximal 2 x 20 digits.

4. Jog and Shuttle

Jog and **Shuttle** dials allow you to control the play/reverse play back speed of a DVR.

5. DVR reserved keys

DVR reserved keys are for DVRs control mainly. You can operate a DVR that is compatible with **EKB500**.

6. Speed Dome reserved keys

These keys are for Speed Dome control mainly.

7. Number keys

Numbers from 0~9, one **Clr** (clear) key and one **Enter** (enter) key.

4. SETTING

After Keyboard powered on, firmware version will be displayed on the panel, and the message will disappear after 3 seconds (Fig.1). After the version display disappears, a display with 3 main categories that are CAM (Camera), MON (Monitor) and DVR (Digital Video Recorder) will show on the LCD panel (Fig.2).

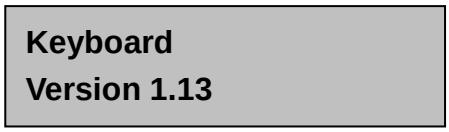


Fig. 1

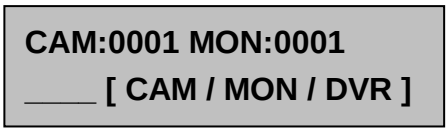


Fig. 2

Some settings have many items (options). However, the LCD has only 2 lines on the panel. In order to display all items, a cursor "<" at the end of the second line indicates there are more options to display. Shift **Joystick** up and down to display all items.

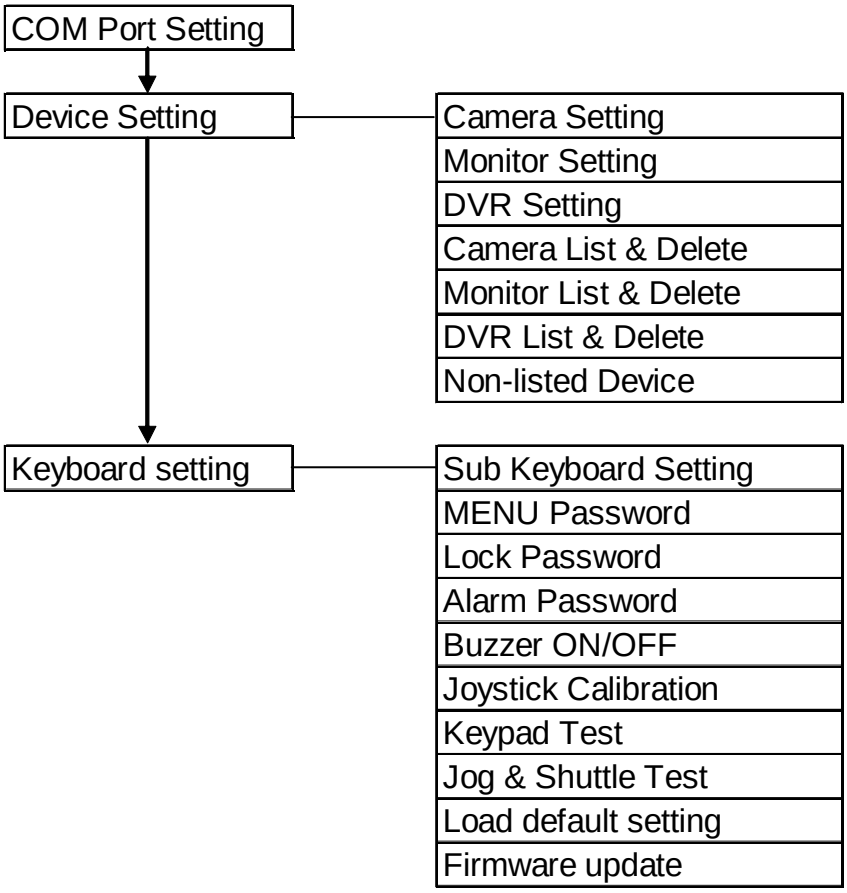
An item flashes when it is selected. You can press **Enter** to get into it, or press **Esc** to return to previous setting list.

Press **Shift** + **Menu** to enter the main setup menu.

You will see 2 lines on the display, and the first line is flashing. You can switch Joystick up/down to change the flashing line, and display more subentries. Press **Enter** to get into the flashing line.

COM Port Setting
Device Setting

The structure of setup menu shows below:



4.1. COM PORT SETTING

Port : _ (1 or 2) **Input the port.**	Select "**COM Port Setting**" (The line is flashing), and press **Enter** to enter the **COM Port Setting,** or **Esc** to go back main setup menu. Key in the port you want to set (1 or 2), and then press **Enter**.
BAUD : 9600 < **[↑ , ↓] to change**	Switch **Joystick** up/down to change the Baud Rate, and then press **Enter**. The available Baud Rates are 1200, 2400, 4800 and 9600.
Protocol : EVF-1 **[↑ , ↓] to change**	Switch **Joystick** up/down to change the protocol, and then press **Enter**. The available protocols are EVF-1, EVF-2, A-TYPE, PELCO-D and PELCO-P.
Port : 1 Changed **[ENT] to save**	After finishing setting, you need to press **Enter** to save the setting.

When the setting is saved, the display will go back to the COM Port Setting. Enter another port to set, or **Esc** to quit the COM Port Setting.

Note: It's important to select a correct Baud Rate and protocol for the device connection, and please do not connect devices with different protocols/baud rate to a COM port. For example: If you have 3 devices on Port 1 of the

keyboard, all devices should be set with the same protocols and Baud Rate.

4.2. DEVICE SETTING

4.2.1. Camera Setting

Camera Name : _ _ _ _	Assign a name from 0~9999 to the camera. The name can be different from the RS485 address.
RS485 Connected to Port : _ [1 or 2]	Select the RS485 port number to which the camera connects.
RS485 Address: _ _ _ _	Enter the RS485 address that the camera is defined.
Video Connected to DVR : _ _ _ _ CH : _ _	We define DVR number as “DVR”, and the channel number to which the camera is connected as “CH”.
Camera : 0001 changed [ENT] to save	Press **Enter** to save the setting of the camera. Press **Esc** to quit the setting of the camera without saving.

4.2.2. Monitor Setting

Monitor Name : _ _ _ _	Assign a name from 0~9999 to the monitor.
Video Connected to DVR : _ _ _ _ Matrix : _ _	Assign the monitor to an output channel of a DVR.
Monitor : 0001 changed [ENT] to save	Press **Enter** to save the setting of the monitor. Press **Esc** to quit the setting of the monitor without saving.

4.2.3. DVR Setting

DVR Name : _ _ _ _	Assign a name from 0~9999 to the DVR. The name can be different from the RS485 address.
RS485 Connected to Port : _ [1 or 2]	Select the RS485 port number to which the DVR connects
RS485 Address: _ _ _ _	Enter the RS485 address that the camera is defined.

DVR Type : **EDSR1600 <**

Select the DVR brand and model name. The available models now are EDR410, EDR810, EDR1620, EDR1640, EDSR400H, EDSR400, EDSR600, EDSR900 and EDSR1600.

DVR : 0000 set **[ENT] to save**

Press **Enter** to save the setting of the camera.

Press **Esc** to quit the setting of the camera without saving.

4.2.4. Camera List & Delete

In the Camera List & Delete menu, you can check all available cameras. You can also delete a camera from the list.

Total 005 Cameras **[ENT] to view list**

Show the camera amount. Press **Enter** to view camera list, or press **Esc** to quit.

Name	**RS485**	**DVR**	**CH**
0012	**2- 0014**	**0002**	**03 <**

In this display, we define

Name: The name of the camera.

RS485: The port and the address to which the camera is connected. The number before the "-" is the port number, the number after the "-" is the camera address

number.

DVR: The DVR to which the camera is connected.

CH: The channel number to which the camera is connected.

Switch **Joystick** up/down to change the cameras.

Del Camera0000 **[ENT] to confirm.**

Press **Enter** for a camera you want to delete. Press **Enter** again to confirm.

4.2.5. Monitor List & Delete

In the Monitor List & Delete menu, you can check all available monitors. You can also delete a monitor from the list.

Total 005 Monitors **[ENT] to view list**

Show the monitor amount. Press **Enter** to view monitor list, or press **Esc** to quit.

Name	**DVR**	**CH**	
0012	**0014**	**0002**	**<**

In this display, we define

Name: The name of the monitor.

DVR: The DVR to which the monitor is connected.

CH: The channel number to which the monitor is connected.

Switch **Joystick** up/down to change the Monitor.

Del Monitor0000 **[ENT] to confirm.**

Press **Enter** for a Monitor you want to delete.

Press **Enter** again to confirm.

4.2.6. DVR List & Delete

In the DVR List & Delete menu, you can check all available DVRs. You can also delete a DVR from the list.

Total 005 DVRs **[ENT] to view list**

Show the DVR amount. Press **Enter** to view DVR list, or press **Esc** to quit.

Name RS485 **0012 1- 0010**

In this display, we define:

Name: The name of the DVR.

RS485: The port and the address to which the DVR is connected. The number before the "-" is the port number, the number after the "-" is the DVR address number.

Switch **Joystick** up/down to change the DVRs.

Del DVR : 0000 **[ENT] to confirm.**

Press **Enter** for a DVR you want to delete.

Press **Enter** again to confirm.

4.2.7. Non-listed Device

In the Non-listed Device menu, you can set the keyboard only control the listed device or not.

Allow Operation w/o list [↑ , ↓] to toggle	The message indicates the non-listed device operation is allowed. Switch Joystick up/down to disable it, and then press **Esc** to quit.
No Operation w/o list [↑ , ↓] to toggle	The message indicates the non-listed device operation is disabled. Switch Joystick up/down to disable it, and then press **Esc** to quit.

4.3. KEYBOARD SETTING

Keyboard setting provides you the configuration of this keyboard. You can define keyboard type, set passwords, test keyboard and update firmware in the setting.

4.3.1. Sub Keyboard Setting

This keyboard ID : 0 (0 – 7 , 0 for master)	Key in the number of this keyboard.
MAX Subkeyboards : 0 – 7 supported	Key in the total number of the keyboards on the RS485 bus.

Note: Up to 8 keyboards can be connected, and each keyboard has to have an exclusive ID to indicate each keyboard on the RS-485 bus. The master keyboard ID has to value as 0 and the subkeyboards can be set from 1 to 7 as its value.

4.3.2. MENU Password

You may lock the setup menu to protect unauthorized operation.

Input new Password : _ _ _ _ _ _ _ _	Input a new menu password.
Repeat Password : _ _ _ _ _ _ _ _	Repeat the new menu password.
Protect setup menu **NO < [↑ ↓] to change**	Switch **Joystick** up/down to select YES/NO, and then press **Enter**.

Select YES to enable a setup menu password, and a password-enabled message will show up on the display.

Setup menu password set and enabled.

Select NO to disable a setup menu password, and a password-disabled

message will show up on the display.

Setup menu password **set but disabled.**

4.3.3. Lock Password

You may lock the Keyboard to protect unauthorized operation.

Input new Password : _ _ _ _ _ _ _ _	Input a new keyboard lock password.
Repeat Password : _ _ _ _ _ _ _ _	Repeat the new keyboard lock password.
Enable Lock password **NO < [↑ , ↓] to change**	Switch **Joystick** up/down to select YES/NO, and then press **Enter**.

Select YES to enable a keyboard lock password, and a password-enabled message will show up on the display.

Lock password **set and enabled.**

Select NO to disable a keyboard lock password, and a password-disabled message will show up on the display.

Lock password **set but disabled.**

4.3.4. Alarm Password

Alarm would not be turned off before the operator key-in a password to terminate it. The keyboard is equipped with a buzzer for acoustic signals when an alarm is enabled.

Input new Password : _ _ _ _ _ _ _ _	Input a new alarm password.
Repeat Password : _ _ _ _ _ _ _ _	Repeat the new alarm password.
Enable Alarm Passwd **NO < [↑ , ↓] to change**	Switch **Joystick** up/down to select YES/NO, and then press **Enter**.

Select YES to enable an alarm password, and a password-enabled message will show up on the display.

Alarm password **set and enabled.**

Select NO to disable an alarm password, and a password-disabled message will show up on the display.

Alarm password **set but disabled.**

4.3.5. Buzzer ON/OFF

Buzzer can be enabled or disabled by setting here. Switch Joystick to change the buzzer status, and then press **Enter** to confirm.

Buzzer Enabled **[↑↓] to toggle**	**Buzzer Disabled** **[↑↓] to toggle**

4.3.6. Joystick Calibration

Joystick calibration helps users to test the functions of the Joystick.

Release Joystick **and press [ENT]**	Release Joystick, and then press **Enter** to test or press **Esc** to quit test.
Move joystick **to corners.**	The message shows up after pressing **Enter**.
X+000 Y+000 Z+000 **X-000 Y- OK Z-000**	

There are 3 ways that are X, Y and Z to be checked, and each way has 2

directions. We divide each direction into 16 scales. A direction will show OK if the **Joystick** can reach the 16th scale.

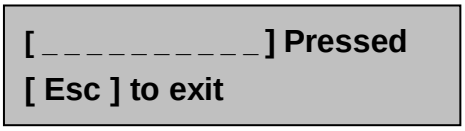
Sway the Joystick up/down to check the X+/X- calibration.

Sway the Joystick right/left to check the Y+/Y- calibration.

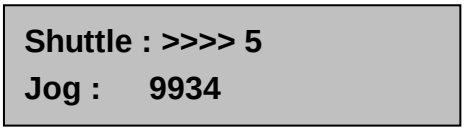
Turn the Joystick clockwise/counterclockwise to check the Z+/Z- calibration.

4.3.7. Keypad Test

Under the Keypad testing stage, you may press any key on the keyboard and the key name will display accordingly to the LCD.



4.3.8. Jog & Shuttle Test



Shuttle test:

Turn the **Shuttle** right/left and the sign “>>>>” / ”<<<<” shows up with a number that indicates the scale of Shuttle. The scale number is zero before the Shuttle is dialed. It increases from 0 to 7 when the Shuttle is dialed.

Jog test:

Dial the Jog clockwise, the number will increase.

Dial the Jog counter-clockwise, the number will decrease.

The number displays from 0000 ~ 9999.

4.3.9. Load default setting

Load default setting **Press [ENT] to load.**	Press Enter to load default setting.
Input 123 to start **_ _ _ [ENT]**	In order to prevent a mistake, system will ask you to enter 123, and then press enter to start to load default.

The setting will go back to keyboard setting if the password is wrong.

The setting will go back to keyboard setting after a long buzzer if the password is right, and every setting will be cleaned up.

4.3.10. Firmware update

Input 123 to start **_ _ _ [ENT]**	In order to prevent a mistake, system will ask you to enter 123, and then press enter to start firmware update.

5. KEYBOARD FUNCTIONS

There are three main functions that are in support of DVR, monitor and camera of the keyboard.

5.1. DVR support

EKB500 can support DVRs, and control DVRs via DVR reserved keys. Keyboard functions if the DVR has the according function. For instance, the search key on the keyboard will not work if the DVR does not have the function.

To add a DVR into the keyboard is necessary. Please check DVR setting on page 13 to get more information.

To get controlled over a DVR:

DVR : 0001 **[CAM / MON / DVR]**

There are 2 ways to get controlled over a DVR.

1. Press the **DVR** key, and then the DVR line on the display will start to flash. Press **Enter** after the DVR name is keyed in, and you can start to operate the DVR.
2. Enter the DVR name, and then press **DVR** to get controlled over a DVR.

To operate a DVR:

The DVR reservation keys are available for operating a DVR. The following table shows the main functions of a DVR operation. The buzzer will buzz three

times if the protocol does not suppose the function after pressing the function key.

DVR main function table:

Function	**Key**
Enter setup menu	Press **MENU** to enter the setup menu.
Full screen display	Enter the channel number, and then press **Enter**
Zoom In/Out	In the full screen mode, press **Zoom** to zoom in/out.
Normal record	Press **Rec** to record.
Normal playback	Press **Play** to playback.
Search playback	Press **Search** to search a time or a event for playing back.
Fast Forward/Reverse playback	Turn the **Shuttle** dial clockwise/counter-clockwise during playback mode.
Pause playing back	Press **Pause** to freeze a playing back image.
Stop playing back	Press **Stop** to stop a playing back image.
Change the information display mode	Press **Display** to change different information display mode.
Change the screen display mode	Press **Mode** to change different screen display mode.
Sequence mode	Press **Seq** to enable a sequence mode.
Call monitor setting	Press **Call** to enter the call monitor setting.
Select mode	Select a display on the screen. A start will show on the selected display.
Copy a video file	Press **Copy** to copy a video file.

5.2. Monitor support

To add a monitor and a DVR into the keyboard devices before operating is necessary. Please check monitor setting on page 13 to get more monitor setting information.

To show camera on different monitor:

In order to do this, the camera and the monitor need to be connected to the same DVR.

CAM : 0001 MON : 0001 **[CAM / MON / DVR]**

There are 2 ways to display a camera on a monitor:

1. Press the **MON** key, and then the MON line on the display will start to flash. Press **Enter** after the monitor name is keyed in, and then DVR will display a selected video on the assigned monitor.
2. Enter the DVR name, and then press **MON** to command a matrix. Example: Press **0** → **0** → **1** → **2** → **MON**, the current camera's image will show on the monitor 12.

5.3. Camera (Speed dome) support

EKB500 can support speed domes (or cameras), and control speed domes via DVR reserved keys. Keyboard functions if the camera has the according function. For instance, the search key on the keyboard will not work if the camera does not have the function.

To add a speed dome into the keyboard device is necessary. Please check camera setting on page 12 to get more information.

To get controlled over a camera (speed dome):

```
CAM : 0001        MON : 0001
[ CAM / MON / DVR ]
```

There are 2 ways to get controlled over a speed dome camera.

1. Press the **CAM** key, and then the CAM line on the display will start to flash. Press **Enter** after the camera name is keyed in, and you can start to operate the speed dome camera.
2. Enter the camera name, and then press **CAM** to get controlled over a speed dome camera.

To operate a camera (speed dome):

You can operate the selected speed dome camera by using camera reservation keys of EKB500. The functions that can be operated by the EKB500 depend on different protocols. The buzzer will buzz three times if the protocol does not suppose the function after pressing the function key.

Camera main function table:

Function	**Key**
Manual up/down/right/left	Switch the **Joystick** up/down/right/left.
Zoom In/Out	Press **Zoom In** / **Zoom Out**.
Focus Far/Near	Press **Focus F.** / **Focus N.**.

IRIS +/-	Press **IRIS +** / **IRIS -**.
Go to a position	Position number + **Position** / **Position** + position number, and then press **Enter**
Save a position	Press **Shift** + **Position** to save a position.
Set position parameter	Press **Set** + **Position** to set position parameter.
Delete a position	Press **Clr** + **Position** to delete a position.
Tour mode 1 (One-way)	Press **Tour** to run a one-way tour.
Tour mode 2 (To-and-fro)	Press **Shift** + **Tour** to run a to-and-for tour.
Set a tour	Press **Set** + **Tour** to set a tour.
Start auto pan	Press **A.Pan** to start a two-point auto pan.
360° auto pan mode	Press **Shift** + **A.Pan** to start a 360° auto pan.
Set auto pan	Press **Set**+ **A.Pan** to set an auto pan.
Go back to home position	Press **Home** to go back to the home position.
Set auto go back home	Press **Set** + **Home** to set auto go back home position.
Link an alarm to a position or tour	Press **F1** to link an alarm to a position or tour.
Delete an alarm link to a position or tour	Press **Clr** + **F1** to delete a link of an alarm to a position or tour.

6. DEVICE CONTROL OPERATION GUIDE

The device connection depends on the users' application. Users can check the device's manual to set up and operate the keyboard. Two examples here provide you the guide of basic functions to operate.

6.1. To operate a speed dome (EPTZ1000)

In order to operate a speed dome, to get controlled over the speed dome is necessary. There are 2 ways to get controlled over a speed dome camera, which are:

1. Press the **CAM** key, and then the CAM line on the display will start to flash. Press **Enter** after the camera name is keyed in, and you can start to operate the speed dome camera.
2. Enter the camera name, and then press **CAM** to get controlled over a speed dome camera.

6.1.1. Manual Control Mode

- **Manual control:** Shift Joystick Up/Down/Left/Right, and turn it Clockwise/Counterclockwise to control speed dome.

  Use the control keys which are Zoom, Focus and IRIS function keys on the keyboard to zoom in/out, focus N (near)/F (Far), or IRIS +/-.
- **HOME Mode:** The camera view will go back to the home position when there is no keyboard operation in a specific time. The home position and the specific time can be set by pressing **Set** + **Home**.

Back to home if no action for ___Minute	Enter the specific time to go back home position, and then press **Enter**.
Move to home position [ENT] to confirm	Switch the Joystick to move the view to the home position, and then press Enter to confirm the home position.
Auto Back Enabled [↑↓] to toggle	Switch the Joystick to enable or disable the auto back home function, and then press Enter to confirm.

6.1.2. Auto Pan Mode

- **Two point auto pan**: Press **A.Pan** to enter the auto pan mode, and then the system will ask you to enter the auto pan speed (1~239). Press **Enter** to start auto pan.

Speed:___[1-239] [ENT] to start.	
Position A Dwell:___[1-239]	In order to set the two points, press **Set** + **A.Pan**, and then enter the dwell time (1~239 seconds) of position A.
Move to Position B [ENT] to confirm	Move to the position B of auto pan, and then press **Enter**.

Position B **Dwell:___[1-239]**

Enter the dwell time of position B, and then press **Enter** to finish setting.

- **360° auto pan:** Press **Shift** + **A.Pan** to enter the 360° auto pan. The camera will turn 360° automatically, but not tilt.

6.1.3. Position Setting

- **Focus on a preset position:** Press the number key, and then press **Position** to focus on the number of preset position; or you can press **Position**, then enter the preset position number, and then press **Enter** to focus on the number of preset position.

Camera:0001 go to **Position:___[1-192]**

- **Preset a position:** Shift the Joystick to the position you would like to preset, and then press **Shift** + **Position**. The system will ask you to enter the preset position number (1~239), and then press **Enter** to save the position. There are up to 192 positions can be preset.

Camera:0001 Save to **Position:___[1-192]**

- **Set the parameter of a preset position:** Press **Set** + **Position** to set the parameter of a preset position. You can set the going-to speed (1~239), dwell time (1~239 seconds), and the title of the position.

Set Camera:0001 **Position:___[1-192]**	**Set Position:001** **Speed:___[1-239]**

Set Position:001 **Dwell:___[1-239]**

Shift the joystick Right/Left to change bits, and shift the Joystick Up/Down to change the alphanumeric characteristic. The available alphanumeric characteristics are 0~9, A~Z, &, ?, !, :, ‘, ., ,, /, -, and a space.

Title for position _____	**V** _____

- **Delete a preset position:** Press **Clr** + **Position** to delete a preset position. The system will ask you to enter the position number that you would like to delete, and then press **Enter**.

Camera:0001 **Del Position:___**

6.1.4. Tour Mode

In the tour mode, you can set a tour for viewing. There are 16 tours can be set, and 16 preset positions in a tour.

- **One-way tour Mode:** Press **Tour** to enter the tour mode. The system will ask you to enter the tour number you would like to run, and starts

the tour after pressing **Enter**. To preset a tour before running it is necessary.

Camera:0001
Run Tour:__[1-16]

Preset a one-way tour: Press **Set** + **Tour** to preset an one-way tour. The system will ask you to enter preset position numbers (The positions need to be preset). After finish entering all positions, press **Stop** to quit, and then press **Enter** to save the tour.

Set Camera:0001
Tour:__[1-16]

Add Position#01:___
[ENT / STOP]

Tour:001 Pos#01:001<
[ENT] to save

- **To-and-fro tour mode:** Press **Shift** + **Tour** to run a to-and-fro tour. The system will ask you to enter the tour number you would like to run, and starts the tour after pressing **Enter**. To preset a tour before running it is necessary.

Note: The difference between the One-way tour mode and To-and-fro tour mode is that the return modes are different. For example: There is a tour with 3 preset positions 1, 2 and 3. The camera runs 1→2→3→1→2→3 in the One-way tour mode, and 1→2→3→2→1 in the To-and-fro tour mode.

6.1.5. Alarm to Position/Tour Link

EPTZ1000 have 4 alarm inputs that can be set to link to a position or a tour when an alarm is triggered.

- **Set an alarm link:**

  Press **F1** to set an alarm link. Enter the alarm number, and then press **Enter**. Switch the Joystick up/down to select a position or a tour, enter a position or tour number, and then press **Enter** to confirm the setting.

Link Alarm:_ [1-4] to Position [↑↓]:	**Link Alarm:_ [1-4] to Tour [↑↓]:**

- **Delete an alarm link:**

  Press **Clr** + **F1** to delete a link of alarm to position/tour.

Del AlarmLink:_[1-4] [ENT] to confirm

6.2. To operate an DVR (EDSR900/1600)

In order to operate a DVR, to get controlled over the DVR is necessary. There are 2 ways to get controlled over a DVR, which are:

1. Press the **DVR** key, and then the DVR line on the display will start to flash. Press **Enter** after the DVR name is keyed in, and you can start to operate the DVR.
2. Enter the DVR name, and then press **DVR** to get controlled over a

DVR.

6.2.1. Main setup menu

Press **MENU** to enter the main setup menu. In the main menu, dial the **Shuttle** to select an item or a value, and press **Enter** to enter a subentry or go to next item. There are 17 items in the main menu, which are **CLOCL, DAYLIGHT SAVING, TIMER, SEQUENCE, TITLE, COVERT, ALARM, MOTION, RECORD, NETWORK, CONTROL, BUZZER, ARCHIVE, MATRIX, DISK, PTZ** and **SYSTEM** setting menus.

6.2.2. Recording

- **Instant recording:** Press **Rec** to start normal recording.
- **Schedule recording:** The schedule recording needs to be set up and enabled in the **TIMER SETTING MENU**.
- **Alarm recording:** The alarm recording needs to be set up and enable in the **ALARM SETTING MENU**.
- **Motion recording:** The motion recording needs to be set up and enabled in the **MOTION SETTING MENU**.

6.2.3. Play back

- **Normal playback:** Press the **Play** key to start playing back the stored image form last segment.
- **Fast Forward/Reverse playback:** During playing back, turn the

Shuttle dial clockwise to start fast playback; and turn the **Shuttle** dial counter-clockwise to start fast reverse playback. The available speeds are 2X, 4X, 8X, 16X, 32X and 600X for both forward and reverse.

- **Slow Forward/Reverse playback:** During playing back, press **Pause** to freeze the playing back picture. Turn the **Shuttle** dial clockwise to start fast playback; and turn the **Shuttle** dial counter-clockwise to start fast reverse playback. The available speeds are 1/2X, 1/4X, 1/8X, 1/16X and 1/32X for both forward and reverse.
- **Field advance Forward/Reverse:** During the pause mode, turn the **Jog** dial clockwise or counter-clockwise to get still images field by field.
- **Search playback:** Press **Search** to enter search playback mode. There are 3 search modes available that are search by segment list, search alarm list, and search by data time.

6.2.4. Copy

The copy function is not available during record mode. To insert a compatible CF card before copy is necessary.

- **Still image copy:** In the pause mode, dial Jog to select a wanted image. Press **Copy** to copy the still image.
- **Copy to a movie file:** In the playback mode, press **Copy** to enter a copy OSD. Follow the messages on the OSD to complete the movie file copy.

6.2.5. Monitor views / operation

- **Main monitor:** In the main monitor, press **Mode** to switch the different multi-screen mode, press **Display** to switch the OSD displays, or press channel number + **Enter** to display in a full screen.
- **Call / Matrix monitor:** Press **Call** to set up the call/matrix monitor. The sequence for a call/matrix monitor is set up here as well.

There are some other functions of a DVR, and only main functions listed here. To check a DVR manual for more detailed functions.

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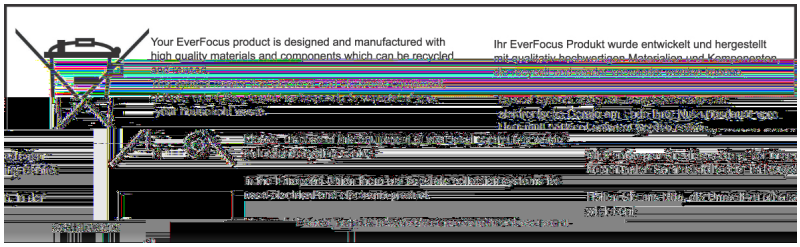
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